WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

February 11, 2009

TO:

Internal File

THRU:

FROM:

James D. Smith, Permit Supervisor

Scientist II 2-11-09

April A. Abate, Environmental Scientist II 2-11-09

RE:

2008 Fourth Quarter Water Monitoring, Nevada Electric Investment Corporation,

Wellington Preparation Plant, C/007/0012, Task ID #3190

The Wellington Preparation Plant is currently in temporary cessation. No mining or coal processing activities currently take place there, nor is the site in active reclamation. Water-monitoring requirements are in Sections 7.23 and 7.31.2 through 7.31.22, and Tables 7.24-2 and 7.24-5 of the MRP.

1. On what date does the MRP require a five-year re-sampling of baseline water data.

Baseline parameters will be collected in the year preceding permit renewal. The next renewal submittal is due 08/10/09 and the next renewal is due 12/10/09. Five-year baseline resampling should be done prior to renewal. The operator has indicated that baseline sampling will occur in the first quarter 2009.

2. Were data submitted for all of the MRP required sites?

There is no spring or in-mine monitoring at this site.

Streams and Ponds

YES 🖂 NO□

The Permittee is required to analyze samples from streams at SW-1, SW-2A, SW-3, and SW-4 and from ponds at SW-5, SW-6, SW-7, and SW-8 for the parameters in Table 7.24-5, and to measure flow only at SW-2. In addition, samples from SW-4 and SW-5 are to also be analyzed for benzene, toluene, ethylbenzene, xylene, and naphthalene (BTEXN) and propylene glycol. Monitoring is done quarterly. All surface water data were reported as within normal ranges.

SW-3, SW-4, and all the ponds were dry during the fourth quarter 2008.

	Wells	YES 🖂	NO 🗌			
	The Permittee is required to analyze samples from GW-1, GW-3, GW-4, GW-6, GW 7, GW-8, GW-9, GW-9B, GW-10, GW-12, GW-13, GW-14, GW-15A, GW-15B, GW-16 and GW-17 for the parameters in Table 7.24-2, and to measure depth only at GW-2. It addition, samples from GW-4 and GW-6 are to also be analyzed for BTEXN and propylen glycol. Monitoring is to be done quarterly. Wells GW-3, GW-13 and GW-17 were gauged but not sampled. It is presumed that similar to the third quarter, there was insufficient water to collect samples for analyses at these wells.					
	UPDES	YES 🖂	NO 🗌			
	Six UPDES permitted outfalls at the Wellington Preparation Plant are monitored monthly: #UTG040010-003, 004, 005, 006, 007, and 008. There was no reported flow at any of the UPDES sites during the fourth quarter 2008.					
3. Were all required parameters reported for each site?						
	Streams and Ponds	YES	NO 🗌			
	As noted previously, SW-3, SW-4, and all the ponds were dry during the fourth quarter 2008.					
		ls were dry dur	ring the fourth			
		ls were dry dur	ring the fourth			
	quarter 2008.	YES sufficient to a	NO 🖂			
	quarter 2008. Wells Static water level was measured but inflow was not	YES sufficient to a	NO 🖂			

4. Were any irregularities found in the data?

Listed parameters were more than two standard deviations from the mean. An asterisk (*) indicates this is not a parameter specifically required by the MRP.

	Streams and Ponds	YES	NO 🖂
	Boron and Selenium are known pollutants produce concentrations have been consistently below detection limit from the surface water data samples analyzed. Boron concentrations analyzed have consistently been below the 0.75 m surface water.	its for the past tentrations in su	welve months irface water
	Wells	YES 🖂	NO 🗌
	Several parameters continue to be outside two stand GW-15A and GW-15B. However, these wells are consideration impoundments.	lard deviations ared to be upgra	from the mean at dient of the coal
	A data analysis was run displaying data from the past to monitoring wells GW-8, GW-9, GW-12 and GW-15A. The highest Total Dissolved Solids (TDS) concentrations of a wells. Making the assumption that TDS concentrations in "background" levels of TDS, we compare the concentrations shown on the linear regression graphs located on the pages of concentrations in GW-12 have dropped considerably to level while TDS concentrations in GW-9 appear highest and incompared to the pages of the pag	ne former three all the groundward GW-15A are and 6. The date als more consistent of the constant of the const	have shown the vater monitoring representative of a time in the plots a show that TDS tent with GW-8, ne. range of middle plize the range of
	GW-12 and GW-8 had similar concentrations, GW-8 concentrations. It is obvious from this plot that TDS concerwell above the assumed "background" concentrations found	was chosen to ntrations in som	symbolize the
	UPDES	YES 🗌	NO 🗌
	Not Applicable. No discharges were reported from locations.	any of the UPI	DES monitoring
5. Die	d the Permittee make a timely submittal of all data, inclu and satisfactorily explain irregular data?	ding initially r YES ⊠	nissing data, NO []

6. Does the Mine Permittee need to submit more information to fulfill this quarter's

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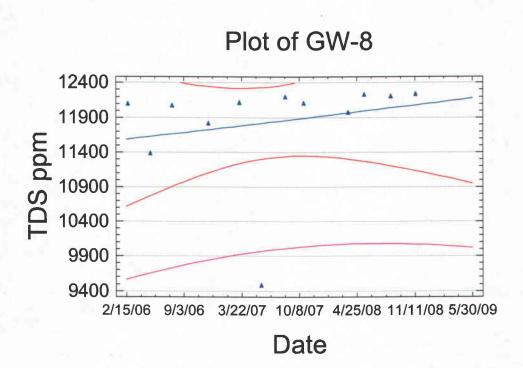
monitoring requirements?	YES	NO 🔀

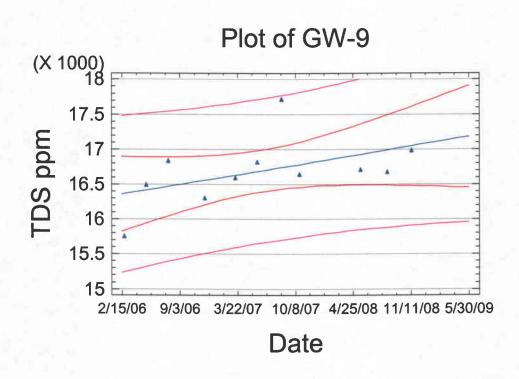
7. Based on your review, what further actions, if any, do you recommend?

The operator has indicated that baseline parameters are to be collected in the first quarter of 2009. Upon receipt of that data, the division will review and make some recommendations regarding any additions or omissions to the existing sampling plan prior to permit renewal at the end of 2009. The permit is scheduled to renew on 12/10/09; therefore, the next permit renewal submittal is due 08/10/09.

8. Follow-up from last quarter, if necessary.

None



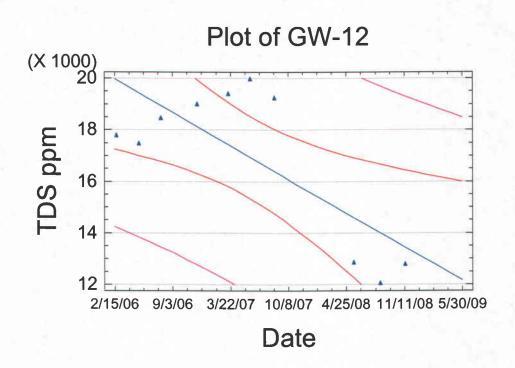


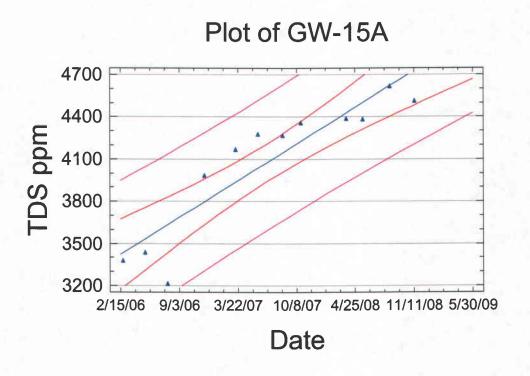
Legend:

Linear relationship of TDS versus time based on the data points.

95% statistical confidence level range for the data

Prediction limit range for the data.





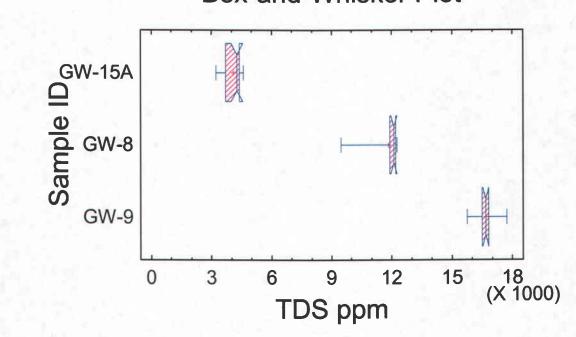
Legend:

Linear relationship of TDS versus time based on the data points.

95% statistical confidence level range for the data

Prediction limit range for the data.

Box-and-Whisker Plot



Notes: The middle ranges of values are plotted inside the "box" while the outlying range of values represents the "whiskers". The mean value is plotted as a "+" symbol while the median value is the blue line plotted in the center of the "box".

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